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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/088,737	06/19/2002	Albert Mau	Q69176	Q69176 4585	
23373	7590 06/25/2004		EXAMINER		
SUGHRUE MION, PLLC			TENTONI. LEO B		
2100 PENNS SUITE 800	YLVANIA AVENUE, N.	W.	ART UNIT PAPER NUMBER 1732 DATE MAILED: 06/25/2004		
WASHINGT	ON, DC 20037	·			

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	4
	10/088,737	MAU ET AL.	\bigcup
Office Action Summary	Examiner	Art Unit	
	Leo B. Tentoni	1732	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence addi	ress
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailir earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tir ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed /s will be considered timely. It he mailing date of this com ID (35 U.S.C. § 133).	nmunication.
Status			
1) Responsive to communication(s) filed on 19 3	lune 2002		
<u> </u>	s action is non-final.		
Since this application is in condition for allowated in accordance with the practice under the condition is in condition.	ance except for formal matters, pro		merits is
Disposition of Claims			
4) □ Claim(s) 1-43 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-43 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or Application Papers 9) □ The specification is objected to by the Examin	own from consideration.		
10) ☑ The drawing(s) filed on 19 June 2002 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	a)⊠ accepted or b)⊡ objected to e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). pjected to. See 37 CFF	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	its have been received. Its have been received in Applicat prity documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National S	Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 06192002;08202002	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	152)

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DETAILED ACTION

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1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 1732, Examiner Leo Tentoni.

Priority

Receipt is acknowledged of papers submitted under 35
 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

3. Applicant is requested to submit a copy of the Australian reference, as such is not presently in the instant application file.

Specification

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: : PROCESS OF MAKING ALIGNED CARBON NANOTUBES.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-43 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point

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out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 6, ``or'' should be -- and -- (the synthesizing step is required for the formation of aligned carbon nanotubes).

Claim 3 contains a trademark (or trade name), which renders the claim indefinite.

In claim 15, line 3, it is not clear why there is a parenthesis at the end of this line, as it appears that there may be one or more words missing from the claim.

In claim 20, lines 3-4, ``said mold'' does not have clear and proper antecedent basis in the claims.

In claim 24, line 2, the phrase - - the group consisting of - - should be inserted after ``from'' (for proper Markush format).

In claim 25, line 2, the phrase - - the group consisting of - - should be inserted after ``from'' (for proper Markush format).

In claim 29, line 2 and in claim 38, line 3, ``or'' should be - - and - - (for proper Markush format).

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 41-43 are rejected under 35 U.S.C. 102(e) as being anticipated by either Chuang et al (U.S. Patent 6,062,931), Nakamoto (U.S. Patent 6,097,138) or Den et al (U.S. Patent 6,628,053).

Chuang et al (see the entire document, in particular, col. 3, line 38 to col. 4, line 36; Figure 6), Nakamoto (see the entire document, in particular, col. 6, line 64 to col. 7, line 45; col. 11, line 27 to col. 12, line 20) and Den et al (see the entire document, in particular, col. 7, line 33 to col. 8, line 69) teach a patterned carbon nanotube film (and devices therefor) as set forth in the instant claims. Note that the carbonized polymer is not part of the nanotube film (the carbon nanotubes are not attached to the carbonized polymer; note also instant claims 35-37).

Allowable Subject Matter

- 9. Claims 1-40 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 10. The following is a statement of reasons for the indication of allowable subject matter: None of the prior art references

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presently of record, alone or in combination, disclose, suggest or teach a process of making aligned carbon nanotubes including carbonizing polymer on the surface of a substrate in a pattern and synthesizing aligned carbon nanotubes on regions of the substrate on which carbonized polymer is not attached as set forth in instant independent claim 1.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leo B. Tentoni whose telephone number is (571) 272-1209. The examiner can normally be reached on Monday - Friday (6:30 A.M. - 3:00 P.M.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael P. Colaianni can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Leo B. Tentoni

Leo B. Tentoni Primary Examiner Art Unit 1732

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